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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,898	10/11/2005	Patrick Pouteau	278971US2XPCT	6959
22850	7590	01/05/2010		
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER EDWARDS, LYDIA E	
			ART UNIT	PAPER NUMBER
			1797	
			NOTIFICATION DATE	DELIVERY MODE
			01/05/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/552,898	Applicant(s) POUTEAU ET AL.	
	Examiner LYDIA EDWARDS	Art Unit 1797	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 September 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 13, 15-18 and 20-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 13, 15-18, and 20-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 9/8/2009 have been fully considered but they are not persuasive.

In response to applicant's argument that molecular recognition areas configured to receive specific biological targets arranged at specific and predefined locations of the biochip with respect to the useful molecular recognition areas, said specific biological targets to obtain fluorescent patterns, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

Furthermore, in response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., optical format and the recognition areas independent of each other) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Furthermore, the applicant is reminded that Patentability does not solely depend on producing evidence that a device has been arranged as claimed prior to the date of the claimed invention. Patentability also depends on whether an artisan with purview of the art would have rendered the modification of prior art to be arranged as claimed obvious.

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 13 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Ida et al. (US 6537801).

Regarding Claim 13, Ida et al. ('801) discloses a biochip comprising: a plurality of useful molecular recognition areas distributed with a determined layout to create a format of molecular recognition areas; means for making optical position marks for each molecular recognition area, distributed with a determined layout to form an optical format, wherein the optical format and the format of recognition areas are two formats produced independently of each other; and means for determining relative position of the two formats provided on the biochip (Col 5, line 8, Col 6, line 65; Col 9, lines 7-32).

Regarding Claim 20, Ida et al. ('801) discloses a layer or a stack of thin layers, facilitating reflection of an optical format tracking beam, arranged between the optical format and the molecular recognition areas (Col 8, lines 25-32; Col 12, line 54-Col 13, line 48; Col 16, lines 42-55).

With respect to the intended use limitations, the device disclose by Ida is structurally the same as the instantly claimed and is capable of providing the operating conditions listed in the intended use section of the claim. Note statements of intended use carry no patentable weight when the structure of the Claim has been met by the prior art reference.

Claim 15 is rejected under 35 U.S.C. 102(b) as being anticipated by Ida et al. (US 6537801) in light of Sogawa (US 20010044058).

Regarding Claim 15, Ida et al. ('801) does not explicitly state wherein the optical marking means includes a sequence of engraved areas and non-engraved areas. However he does disclose wherein the optical marks are made via etching (Col 13, lines 27-48 and Col 16, line 58-Col 17,

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line 24) which is a known form of engraving in the art as taught by Sogawa ('058) in Paragraph 48.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ida et al. (US 6537801) in light of Sogawa (US 20010044058).

Regarding Claim 16, Ida et al. ('801) does not explicitly state wherein the engraved areas and non-engraved areas form a checker board. It would have been an obvious matter of design choice to form an engraving based on a checker board pattern, since applicant has not disclosed that a checker board pattern solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with other distribution patterns.

Regarding Claim 17, Ida et al. ('801) does not explicitly state wherein the areas of the checker board are oblique with respect to the molecular recognition areas. However he does disclose doped regions (of which the examiner deems to be equivalent to an oblique area) that alternate with undoped regions (Col 15 line 27-Col 16 line 36).

Regarding Claim 18, Ida et al. ('801) does not explicitly state wherein the surface area of each recognition area is greater than the surface area of an engraved area or a non-engraved area of the optical format.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to fabricate a surface area of each recognition area is greater than the surface area of an engraved area or a non-engraved area of the optical format, since it has been held that

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where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ

Claims 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ida et al. (US 6537801).

Regarding Claims 21-22, Ida et al. ('801) discloses a device for reading a biochip defined in claim 13, comprising: a first optical head configured to project first incident light onto the biochip; first means for scanning the biochip by the first incident light; second means for scanning the biochip by the second incident light; a first optical system associated with an optical head to project first light originating from the biochip and related to the first incident light onto a first optoelectronic sensor, demonstrating presence or absence of target molecules on each molecular recognition area, the first optoelectronic sensor configured to supply signals corresponding to the first light; a second optical system associated with an optical head to project second light originating from the optical format of the biochip and related to the second incident light onto a second optoelectronic sensor, the second optoelectronic sensor configured to supply signals corresponding to the second light; first means for recording at least part of the signals corresponding to the first light; second means for recording at least part of the signals corresponding to the second light; and means for processing said signals to adjust the signals corresponding to the first light and signals corresponding to the second light, on a fictitious biochip as a function of means for determining relative position of the two formats (Col 9, line 7-Col 11, line 67).

Ida et al. ('801) does not explicitly state wherein a second optical head is configured to project second incident light onto the biochip. However he does disclose an optical head capable of projecting light onto the biochip. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate a second optical head in the same

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direction as the first optical head, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *St. Regis Paper Co. v. Bemis Co.*, 193 USPQ 8.

Regarding Claim 23, *Ida et al.* ('801) discloses a mechanical system or an autofocus system to maintain the focus of the reading beam on the surface of the biochip (Col 6, lines 8-16).

Regarding Claim 24, *Ida et al.* ('801) does not disclose a piezoelectro actuator. However he does disclose an electromagnetic actuator and means for slaving the actuator (Col 9, lines 26-32) of which the examiner deems to be a functional equivalent.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute one known element in the art for another with a reasonable expectation of success.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LYDIA EDWARDS whose telephone number is (571)270-3242. The examiner can normally be reached on Mon-Thur 6:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Griffin can be reached on 571.272.1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/LYDIA EDWARDS/
Examiner
Art Unit 1797

LE

/Walter D. Griffin/
Supervisory Patent Examiner, Art Unit 1797